

BLWL-B

Hollowed Load Cell



Tension measurement of anchors

- Being waterproof ensures field usage IP67 (IEC 60529)

BLWL-B was result of collaborative research of Public Works Research Institute and other 8 companies. A new type features easily installing to the existed anchor and easily replace with the old one. It can be used to measure loads of ground anchors, PC anchors, tunnel timbering, etc. either existed or new one.

As for existed anchors, the collaborative items Tensile Jigs and Jacks are required

● Load Measurement ● 500kN, 1MN

Specifications

Performance

Rated Capacity	500kN, 1MN (As for 1.5 MN and others, please contact us.)
Nonlinearity	Within $\pm 1\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO
Rated Output	Approx. 1 mV/V

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.1\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.1\%$ /°C

Electrical Characteristics

Safe Excitation	10 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω $\pm 2\%$
Output Resistance	350 Ω $\pm 2\%$
Cable	4-conductor (0.5 mm ²) chloroprene shielded cable, 9.6 mm diameter by 1 m long, bared at the tip (Shield is not connected to the case.)

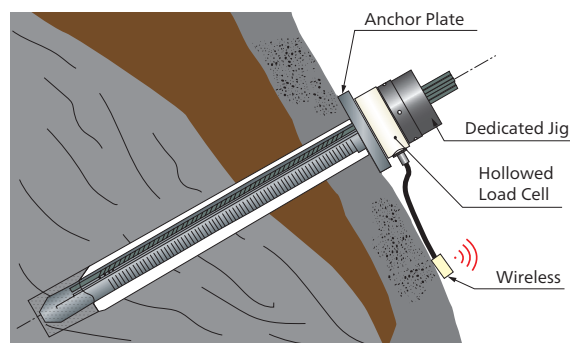
Mechanical Properties

Safe Overloads	120%
Degree of Protection	IP67 (IEC 60529)
Weight	500kN: Approx. 4.4kg 1MN: Approx. 6.2kg

- 1) Both nonlinearity and hysteresis are the calibrated values. Depends on the load surface and the load direction, they may exceed the spec. value.
- 2) When installing, never apply eccentricity load on it.
- 3) The specifications are the values under uniform load on the load surface.

Application Sample

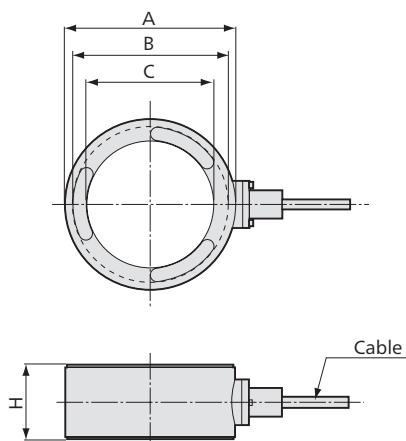
Tension Measurement of Earth Retaining or Retaining Wall



Models	Rated Capacity	A	B	C	Height (H)
BLWL-B-500KNSA3	500 kN	$\phi 158$	$\phi 145$	$\phi 118$	70
BLWL-B-1MNSA3	1 MN	$\phi 193$	$\phi 181$	$\phi 147$	70

As for 1.5 MN and others, please contact us.

Dimensions



NETIS: No. KT-120103-A

Aki-Mos

Existing monitoring system
for anchor tension

